

WHAT IS CLAIMED IS:

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- 5 1. A cushion comprising:
a cover having a selected contour; and
a core disposed within said cover, said core comprising a volume of separate particulates and an oil disposed between the particulates for enabling lubricated movement of the particulates, with respect to one another in response to an outside force applied to said cover.
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2. The cushion according to claim 1 wherein said cover is stretched to the selected contour by the core.
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3. The cushion according to claim 1 wherein said cover is molded to the selected contour.
4. The cushion according to claim 2 wherein said separate particulates are compressible.
- 20
5. The cushion according to claim 5 wherein said separate particulates are foam particulates.
- 25
6. A cushion comprising:
a sheet stretched to a selected contour; and
a core for supporting said sheet in the stretched selected contour, the core produced by:
providing a mold having the selected
30 contour;
disposing said sheet over the mold;

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disposing a volume of a mixture comprising compressible particulates and a liquid into the mold onto an exposed side of said sheet;

5 forcing the volume into the mold to stretch the sheet to the contour; and

sealing a backing over a bottom of the cushion to trap the volume between the sheet and the backing and maintain the sheet stretched contour.

10 7. The cushion according to claim 6 wherein said sheet comprises an elastomer.

15 8. The cushion according to claim 7 wherein said elastomer is preshaped to the contour before insertion into said mold.

20 9. The cushion according to claim 6 further comprising an elastomer disposed between said core and said sheet.

25 10. The cushion according to claim 9 wherein said elastomer has sufficient thickness to prevent sensing of the particulates in the core through said sheet.

30 11. The cushion according to claim 6 wherein said compressible particulates comprise foam particles.

12. The cushion according to claim 11 wherein said foam particles are open cell foam particles.

13. The cushion according to claim 14 wherein said mixture further comprises polymer particles.

14 14. The cushion according to claim 6 wherein
5 said backing comprises a second stretchable sheet.

15. A cushion comprising:
a stretchable sheet; and
a core for supporting said stretchable sheet
10 in a selected contour, the core produced by:
providing a mold having the selected
contour;
disposing said stretchable sheet over the
mold;
15 disposing a volume of a mixture comprising
compressible open cell foam particles and a liquid
into the mold onto an exposed side of said stretchable
sheet;
forcing the volume into the mold and said
20 liquid into the open cell foam particles; and
sealing a backing over a bottom of the
cushion to trap the volume between the sheet and the
backing.

25 16. The cushion according to claim 15 wherein
said stretchable sheet comprises an elastomer.

17. The cushion according to claim 16 wherein
said elastomer is preshaped to the contour before
30 insertion into said mold.

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18. The cushion according to claim 15 further comprising an elastomer disposed between said core and said stretchable sheet.

5 19. The cushion according to claim 18 wherein said elastomer has sufficient thickness to prevent sensing of the particulates in the core through the sheet.

10 20. The cushion according to claim 19 wherein said mixture further comprises polymer particles.

21. The cushion according to claim 15 wherein said backing comprises a second stretchable sheet.

15 Sub B17 22. A cushion comprising:
a sheet stretched to having a selected contour;
a backing; and
20 a core disposed between said stretchable sheet and said backing and comprising a mixture of compressible particulates and a liquid.

23. The cushion according to claim 22 wherein
25 the particulates comprise open cell foam particles.

24. The cushion according to claim 23 wherein said liquid is partially disposed within said open cell foam particles.

30 25. The cushion according to claim 20 wherein said core further comprises polymer particular.

26. The cushion according to claim 25 further comprising an elastomer disposed between said core and said sheet.

5 27. The cushion according to claim 26 wherein said elastomer has a sufficient thickness to prevent sensing of the particulates in the core through said sheet.

10 28. The cushion according to claim 27 wherein said liquid comprises an oil.

29. A cushion comprising:
a core comprising compressible particulates
15 and a liquid;
a sheet disposed around said core for preventing leakage of liquid, said sheet being stretched to a selected contour of said core.

20 30. The cushion according to claim 29 wherein said particulates comprise open cell foam particles.

31. The cushion according to claim 30 wherein said liquid is partially disposed within said open
25 cell foam particles.

32. The cushion according to claim 31 wherein said core further comprises polymer particles.

30 33. The cushion according to claim 29 further comprises an elastomer disposed between said core and said sheet.

34. The cushion according to claim 33 wherein said elastomer has sufficient thickness to prevent sensing through said sheet of the particulates in said core.

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35. A cushion comprising:

a sheet stretched to a selected contour; and
a core for supporting said sheet in the stretched selected contour, the core produced by:

10 providing a mold having the selected contour;

disposing said sheet over the mold;

15 disposing a volume of a mixture comprising compressible particulates, a liquid and a foamable elastomer into the mold onto an exposed side of said sheet;

sealing a backing over a bottom of the cushion to trap the volume between the sheet and the backing; and

20 causing foaming of said foamable elastomer in order to force the volume into the mold to stretch the sheet to the contour.

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